



# DUNCAN MUTWIRI BARIU

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## Languages

- English, Kiswahili and Kenyan Sign Language

## Objective

Dedicated, disciplined and reliable agriculture professional with proven success in managing farm and field operations in supervisory and managerial positions seeking an opportunities to use my knowledge, experience and creativity to improve general agricultural productivity through systems improvement and research.

## Education

- **Egerton University** 2017  
Bsc Horticulture  
Second Class Upper
- **Burieruri Boys Secondary School** 2012  
Kenya Certificate of Secondary Education (KCSE)
- **Ronald Gideon Ngala Primary School-Mombasa** 2008  
Kenya Certificate of Primary Education (KCPE)

## Short Trainings

- 2022 Current and Emerging Threats to Crops Innovation Lab Project Management Training Course-Michigan State University.
- 2022 Occupational First Aid- Kaileys Consortium.
- 2022 Occupational Safety and Health-Kaileys Consortium.
- 2021 Occupational Safety and Health Refresher Training-Diverse Ecosafety Consultants Ltd.
- 2020 BSAF-United Nations Department of Safety and Security(UNDSS).
- 2015 BCE Driving License -Framken Driving School.
- 2013 Computer Packages-Nyambene School of Professional Studies.

## Experience

- **WTS Energy(Eni Natural Energies Kenya Ltd-ENEK)** April 2024 - January 2026  
Regional Coordinator  
Here I served in the capacity of regional coordinator in Makueni, Kitui and Lamu Counties. My main duties were to facilitate activities of Field Officers, Aggregators and other stakeholders in the ENEK castor value chain within the regions assigned. I facilitated, conducted oversight and provided feedback on vendor activities related to: Farmer recruitment, Seed distribution, ploughing oversight of farmers' farms, safety and health compliance, farm monitoring and evaluation e.t.c  
Ensured good relations between field staff and other stakeholders.  
Allocated, delighted and followed up on the tasks carried out by field officers in the regions assigned.  
Worked towards resolving most of the challenges raised or brought to my attention by farmers or field officers on ground.  
Contributed to development of various documents used for tracking field activities and incentives provided to farmers.
- **Plantech Kenya Ltd** 14/04/2023 - 12/10/2023  
Grower-Motherstock  
As a Motherstock grower, I was charged with implementation of various activities related to greenhouse preparation, media treatment, crop nutrition, crop protection and many other tasks that facilitated other departments.  
Irrigation and fertigation was mostly automated though foliar and chemical sprays or drenches were manually

applied using hand held shower heads.

We collected and communicated irrigation and climate data on daily basis then updated summaries every week in the company server.

Data collated daily included media moisture level, radiation sum, drip&drain e.c,pH, volumes, air and leaf pressure deficits(VPDs), leaf temperature and drain percentages from pots of all crop groups. I requested chemicals and supervised chemical sprays, followed up on repair of systems malfunctions or structural defects. Conducted basic trainings for general staff and scouter on several work protocols related to various sections and activities.

I executed various plant husbandry, crop nutrition, climate management and crop protection trials. Contributed to development of various departmental SOPs. Managed and guided irrigation & crop nutrition teams in performance of assigned tasks.

- **Lathyflora Kenya Ltd**

December 2020 - April 2023

Agronomist/Section Head

As the agronomist, I was tasked with the production of mostly summer flower cuttings of about 25 genre consisting of 200+ varieties. I managed 3 greenhouses of 60-88beds, 10tunnel greenhouses, 4 shade nets(Lathhouses) covering a production area of approximately 10hectares. I oversaw teams of 2production supervisors, 2 irrigation supervisors and 1 spray supervisor together with their teams, totalling to 100-120 staff with a target of 500,000+ cuttings every week/25million+ succulent cuttings per year.

My job duties included:

Ordering and requesting production inputs(chemicals,tools,package materials, irrigation&spray lines materials etc) from the store.

Daily analysis of scout reports. Personal scouting. Drafting of monthly&urgent chemical, biologicals and foliar sprays.

Conducting various trials for chemicals, foliars, crop husbandry practices etc.

Overseeing timely preparation of beds and establishment of crops according to various specifications.

Training supervisors and general staff on technical production aspects.

Ensuring good farm hygiene, crop maintenance and adherence to company rules, regulations and policies.

Ensuring timely irrigation of crops with the right E.C and PH.

Monthly balancing of seasonal contract workers and signing their off days. Signing leave forms for permanent general staff in my teams.

Submitting monthly crop percentages and fertilizer consumption percentage for each greenhouse, tunnel or lathhouse. Updating greenhouses crop layouts and production coefficients.

Random on-farm inspection of harvested cuttings to ensure they meet the required quality standards.

Organizing transport of harvested cuttings, planting material, crates and other items between farms and grading halls(packhouses).

Ensuring timely calibration of farm machines and equipment e.g fertijets, spray nozzles.

Ensuring timely filling and filing of farm records e.g fertigation logs, chemical use books, fertilizer mixing records, daily activities reports, organic waste collection reports, crates cleaning reports, water & electricity meter readings e.t.c.

Addressing team members concerns and resolving minor disputes at farm level.

Conducting performance appraisals for supervisors and general staff in my section.

Verification of weekly crop prognosis and spray reports, among many other duties.

- **Kenya Agricultural and Livestock Research Organization (KALRO)**

January 2019 - December 2019

Greenhouse Supervisor Intern

Under USAID-Feed the Future (FtF) Integrated Agriculture Research for Development Project, I was posted as a Field

Supervisor to one of the project station in Marimanti, Tharaka Nithi County where I was tasked with establishing and

maintaining crops in a single greenhouse tunnel. With irrigation water and facilitation being a challenge in the semi arid

station, I managed to plant white cowpeas from the nearby market while I await transplanting of onion seedlings I had

established in a small nursery outside. I natured both crops to maturity while training several farmer groups from the area

on greenhouse & drip farming technologies with the help of local agricultural officers. I prepared and submitted monthly

progress reports and a final report of the project to my Project Supervisors at KALRO, Kabete-Nairobi. I also had the

opportunity to assist and learn from other semi-arid research projects conducted at the station by visiting research

scientists based at KALRO, Embu.

## • **Nuts and Oil Crops Directorate(NOCD)-AFFA**

April 2018 - July 2018

### Technical Assistant Intern

As a Technical Assistant Intern I was involved in various projects of the Directorate ranging from:- plant nursery establishment and maintenance, attending farmer training camps and staff seminars, establishment of demonstration plots including stands in Agriculture Society of Kenya(ASK) show centres. I also assisted with preparation and update of oil crops growing guides and proper filing of office documents.

## Skills

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- Computer Literacy (Packages :- Ms Word, Excel, Publisher, PowerPoint, Access, Internet and Emailing, Outlook etc).
- Crop Grafting, Agriculture Experimentation, Farmer Training and Farm Management.
- Calibration of various Farm machines and equipment.
- Labour, Work and Resources planning for work efficiency and profit maximization.
- Agricultural produce quality control.
- Scouting, Identification and control of crop pests and diseases.
- Basic social counseling and training of staff.
- File organization, lamination, printing, copying and scanning.
- Research, Report writing, PowerPoint presentation.
- First Aid administration, Health & safety inspection...etc.

## Projects

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### • **USAID- FtF INTEGRATED AGRICULTURE RESEARCH FOR DEVELOPMENT-2019**

The project aimed at disseminating Good Agricultural Practices and emerging technologies in greenhouse farming. Single tunnel greenhouses of 8m by 50m and 8m by 30m were constructed in various counties and we were posted as Field Supervisors to establish particular crops in them while also organizing training sessions for local farmers at the stations in collaboration with local county agricultural officers.

### • **FARMER DEMONSTRATION PLOTS-2018**

As a Technical Assistant Intern at Nuts and Oil Crops Directorate, I was actively involved in preparation of demonstration plots of approximately 1acre each at Matuga and Mtwapa KALRO research centres to train farmers on good agricultural practices in farming of nuts and oil crops. We planted groundnuts, sunflower, sesame, cashew nuts and coconut plants.

### • **1 MILLION CASHEW NUT TREES PROJECT-2018**

This was a government initiative through various agriculture sector parastatals with the support of other NGOs that aimed at producing 1million grafted cashew nut seedlings for distribution to local farmers in the counties of Mombasa, Kwale, Kilifi, Taita Taveta, Tana River and Lamu. I was tasked with raising rootstock seedlings from seed with a target of 100,000 seedlings.

## Achievements & Awards

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- Health and Safety Champion in Feedstock and Supply Chain Department.-WTS(Eni Natural Energies Kenya Ltd).
- Successfully improved weekly production target per greenhouse from 200,000 to 1million cuttings annually- Lathyflora Kenyan Limited.
- Improved individual worker efficiency in crop harvesting and maintenance. From a target of 6crates to 10+crates per day - Lathyflora Kenyan Limited.
- Improved general staff discipline and attendance in my section - Lathyflora Kenyan Limited.
- Facilitated successful automation of several farm activities and update of farm data. - Lathyflora Kenyan Limited.
- Conducted useful research, on-farm trials and innovation that improved production of various challenging crops - Lathyflora Kenyan Limited.
- Successfully raised a total of 60,000 cashew nut seedlings from seed for grafting and distribution to local farmers - Nuts and Oil Crops Directorate. etc.
- Contributed to significant lowering of production costs through efficient use of farm resources:-chemicals, equipment and machinery - Lathyflora Kenyan Limited.

- Produced greenhouse crops to maturity at 90% survival in a challenging semi arid environment with very limited resources - KALRO-USAID-FtF Project.
- Helped develop 2 acre demonstration plots with 5 oil crops:- Sunflower, Sesame, Coconut, Cashew nuts, Groundnuts - Nuts Oil Crops Directorate.

## Reference

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